





**GEI Consultants, Inc.** 

**Canton Airport Canton MA** 

09382-2

Accutest Job Number: M91579T

**Sampling Date: 05/20/10** 



**GEI Consultants, Inc.** 

LLombardo@geiconsultants.com

**ATTN: Leslie Lombardo** 

Total number of pages in report: 33



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) ISO 17025:2005 (L2235) This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

1 of 3



August 16, 2010

Mr. Raymond Siegener, Ph.D. GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801-1970

RE: Accutest Job M91579T (Revision 1)

Dear Mr. Siegener:

The final report for Accutest job number M91579T has been revised to include a case narrative description of the client-requested dilution of the sample M91579-62T.

Sincerely,

Mark Warren

Accutest Laboratories of New England, Inc.

### **Sections:**

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-1-

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### **Sample Summary**

GEI Consultants, Inc.

Job No: M91579T

Canton Airport Canton MA Project No: 09382-2

Sample	Collected			Matr	ix	Client
Number	Date	Time By	Received	Code	Type	Sample ID
M91579-62T	05/20/10	10:04 SSH	05/21/10	so	Soil	093822-HS-AF-5.5
M91579-102T	05/20/10	10:13 SSH	05/21/10	so	Soil	093822-HS-AT.5-8





### SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: GEI Consultants, Inc. Job No M91579T

Site: Canton Airport Canton MA Report Date 8/16/2010 3:47:42 PM

2 Samples were collected on 05/20/2010 and were received at Accutest on 05/21/2010 properly preserved, at 2.5 Deg. C and intact. These Samples received an Accutest job number of M91579T. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Extractables by GC By Method SW846 8082

Matrix: SO Batch ID: OP22182

- All samples were analyzed within the recommended method holding time.
- Sample(s) M93301-7MS, M93301-7MSD, OP22182-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- M91579-102T (file YZ59050) for Decachlorobiphenyl: Outside control limits due to possible matrix interference.
- M91579-102T (file YZ59062) for Decachlorobiphenyl and Tetrachloro-m-xylene: Outside control limits due to dilution.
- Sample M91579-62T was diluted using Ottawa sand prior to preparation and analysis. 130.28 grams (g) of sand was added to a 10.52 g aliquot of sample and homogenized thoroughly resulting in a dilution factor of 12.4.

Matrix: SO Batch ID: OP22217

- All samples were analyzed within the recommended method holding time.
- Sample(s) M93324-1MS, M93324-1MSD, OP22217-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (M91579T).





Sample Results		
Report of Analysis		



### **Report of Analysis**

Client Sample ID: 093822-HS-AF-5.5

 Lab Sample ID:
 M91579-62T
 Date Sampled:
 05/20/10

 Matrix:
 SO - Soil
 Date Received:
 05/21/10

 Method:
 SW846 8082
 SW846 3540C
 Percent Solids:
 88.3

Project: Canton Airport Canton MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ59168.D	1	08/08/10	$\mathbf{CZ}$	08/05/10	OP22217	GYZ2524
Run #2	YZ59199.D	10	08/09/10	$\mathbf{CZ}$	08/05/10	OP22217	GYZ2525

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml

### **PCB List**

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	110	ug/kg
11104-28-2	Aroclor 1221	ND	110	ug/kg
11141-16-5	Aroclor 1232	ND	110	ug/kg
53469-21-9	Aroclor 1242	ND	110	ug/kg
12672-29-6	Aroclor 1248	ND	110	ug/kg
11097-69-1	Aroclor 1254	ND	110	ug/kg
11096-82-5	Aroclor 1260	ND	110	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%	91%	30-150%
877-09-8	Tetrachloro-m-xylene	41%	56%	30-150%
2051-24-3	Decachlorobiphenyl	78%	91%	30-150%
2051-24-3	Decachlorobiphenyl	99%	92%	30-150%

### (a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



### **Report of Analysis**

Client Sample ID: 093822-HS-AT.5-8 Lab Sample ID: M91579-102T

Matrix: SO - Soil
Method: SW846 8082 SW846 3540C

Method: SW846 8082 SW846 3540C Project: Canton Airport Canton MA Date Sampled: 05/20/10 Date Received: 05/21/10

Percent Solids: 90.4

	File ID	DF	Analyzed	By	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	YZ59050.D	1	08/05/10	$\mathbf{CZ}$	08/03/10	OP22182	GYZ2518
Run #2	YZ59062.D	1000	08/05/10	$\mathbf{CZ}$	08/03/10	OP22182	GYZ2519

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2	15.3 g	10.0 ml

### **PCB** List

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	110	ug/kg
11104-28-2	Aroclor 1221	ND	110	ug/kg
11141-16-5	Aroclor 1232	ND	110	ug/kg
53469-21-9	Aroclor 1242	ND	110	ug/kg
12672-29-6	Aroclor 1248	ND	110	ug/kg
11097-69-1	Aroclor 1254	ND	110	ug/kg
11096-82-5	Aroclor 1260	429000 a	110000	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%	0% b	30-150%
877-09-8	Tetrachloro-m-xylene	108%	0% b	30-150%
2051-24-3	Decachlorobiphenyl	<b>150</b> %	0% b	30-150%
2051-24-3	Decachlorobiphenyl	151% <sup>c</sup>	0% b	30-150%

- (a) Result is from Run# 2
- (b) Outside control limits due to dilution.
- (c) Outside control limits due to possible matrix interference.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





### Misc. Forms

### **Custody Documents and Other Forms**

### Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle



Chain-of-Custody Rec	ord			Laboratory Accuses						Laboratory Lab use only)	/ Job #		M91579T
Origin of Guotouy Hear	2 POSE (1988) (1993)		12 (12 (12 (12 (12 (12 (12 (12 (12 (12 (		- Р	roject I	ntorm	ation					
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GEL	Project Nu	mber: 0938	2-2				P	roject Mai					
400 Unicorn Park Drive	Send Repor	rt to:	Ray Siege	ener			. 18		A Control of Control	Preservativ	9	Sandani Cali	Sample Handling
Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073	Send EDD	to: labdata@	geiconsul	tants.con	1		٨	lone		Apalysis			Samples Field Filtered
MCP PRESUMPTIVE CERTAINTY RE	ю			visioni Listania Martina	<u> </u>	NO.					YES NO NA		
If Yes, Are MCP Analytical Methods Re	YES	NO	NA								Sampled Shipped With Ice		
If Yes, Are Drinking Water Samples Su			YES	(NO)	NA.		į į				1 1		
If Yes, Have You Met Minimum Field C	C Requiremen	nts?	(YES)	NO	NA			ig of					(YES) NO
Lab Sample		Colle: Date	tion	Matrix	No. of Bottles	Sampi	cr(s)	extraction					Sample Specific Remarks
Number GEI Sample I 093822- H5-AF-6		5/26/10	O GRANDAMANANA	SO	1	135		x					Had/FREETS
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-3 093822-H5-AF-			0902					X					<u> </u>
-4 093822-H5-AF-			0903	<u> </u>		1		X					1 1/2
-5 093822- HS-AG	-6		0904	Ц.		$\bot$		<u> </u>		_   _	-		- V
-6 093822- HS - AG			0905	<del>                                     </del>	<b>├-</b> ├-	+	- 13	<u> </u>	1				HOLDIFREE 78
~7 093822-H5-AG	<u>-8</u>		6906	<del>                                     </del>	<del>┤                                    </del>	+ 1		×   _	1 1				FILLD/ COURCE
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093822- HS - AH		1	0911	1	1 4	1 4		×					
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							L	CAVTIC	11- KC	Hental			5/19/2010 es\Chain of Custody

M91579T: Chain of Custody Page 1 of 14



Chain-of-Custody Red	ord			Laboratory: Accutest Laboratory Job # (Labuse only)							M41574		
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	Project Na	me: Canton	Airport				Projec	t Locatio	ı: Canton,	MA			Page 2_ of 9
GEI Consultants	Project Nu	mber: 0938	2-2				Projec	t Manage	r: Anne Le				
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MCP PRESUMPTIVE CERTAINTY REQUIRED YES NO									Ai	aiysis			YES NO NA
If Yes, Are MCP Analytical Methods F If Yes, Are Drinking Water Samples S If Yes, Have You Met Minimum Field	Required? Submitted?		YES YES YES	NO NO NO	NA ) NA NA		PCBs by manual soxlet extraction						Sampled Shipped With Ice  YES NO
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-18 093822- HS - A7	-10		0918				×						HOLD/PREEZE
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M91579T: Chain of Custody Page 2 of 14



Chain-o	f-Custody Reco	rd			Labora	tory:	Accute	est			Labo (Lab us	ratory J e only)	lob#		1991579
		Project Na	me: Canton	Airport		Pi	oject I				n: Canton,	MA			Page 3 of 9
(-	Consultants	Project Nu	mber: 0938	2-2				P	roject	Manage	r: Anne Le				
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-2G	093822- HS - AK -	දී		0906					X						HOLD/FREEZE
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-28	093822- HS - AV -1	0		0938	_				×				-		HOUDIFFEESTE
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Rollinguished by solution 1.	plor (signature)	Date : 5   20   10	Time: /530		id by: (signature) TEI Sample Fndgl					Normal	X_ C	ther	_	notify the la	aboratory to confirm T can be achieved.
y Aquia iou by (Sig		5/21/10	1235		2			S.	Earl State	5-Day	3-D		antaic	 	Domarke:
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3. Joseph	izle	3/21/10	1236	3. W	UL 1	Kell									
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M91579T: Chain of Custody Page 3 of 14

5/19/2010 V:\Forms & Templates\Chain of Custody

CAUDON-Potential elevated PCBs



Chain-c	of-Custody Rec	ord			Labora	atory:	Accutes	t .	75,45Vr V2015*C		Labor (Lab use	atory Jo	b#		1991579
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	(4)	Project Na				3.201		T			Canton, N	1A			Page 4 of 9
	SEL Consultants	Project Nu	ımber: 093	882-2				Proje	ct Ma	nager: A	Anne Leif	er			
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	oburn, MA 01801 H: 781.721.4000							None		ľ	.		1 1	1	Samples Field
	X: 781.721.4073	Send EDD	to: labdat	a@geiconsu	ltants.cor	n		grand.			Ana	ysis			Filtered
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If Yes. Are M	ICP Analytical Methods R	equired?		(YES)	NO	NA									Sampled Shipped
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•	You Met Minimum Field (		nts?	YES	NO	NA						- 1			YES NO
				lection				PCBs by				ĺ			
Lab Sample Number	GEI Sample	ID.	Date	Time	Matrix	No. of Bottles	Sampler Initials	2 E							Sample Specific Remai
-36	093822-HS-AM	-10	5/20/10	0936	SO	1	88H	X	<u> </u>		<u> </u>				HOLDIFRECZE
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-44	093822- HS - AP	<u>'-8</u>	<del>                                     </del>	0944		++	<del>                                     </del>	12	+	1	1 1	_		1	
-45	1111	·- (O		0945		++-	+	12			<del>  -</del>			1 -	
-46	093822- HS - AQ	- 0		1946		+		×		1.					$\overline{}$
-47	093822- HS -A C	<u> </u>	1	6947	Ψ.	V	1	1		1					
	leeded: GEI requires the	most stringen	t Method 1	MCP standa	ird be me	t for all ar	nalytes			CONTRACTOR CONTRACTOR	ound Ti		Color Constitution		mitting rush
whenever po		Date:	Time:	Received by	(signature)	taning tagyang an anggar ang a mangangan an anggar	Land Control of the C	AND COMPLEX			ess day				samples, you mus aboratory to confirm
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								CA	UTI	011-F	otenti	al eli	wated	<u> R.B.</u>	5/19/2010

M91579T: Chain of Custody Page 4 of 14



Chain-of-Custody Rec	ord			Labora	atory:	Accu	est			Labora (Lab use o	The Street	, ,		17915.79
	C. C		2104a25pt-124		e e	roject	nfo	rmation				2 - CONTRACT		_
	Project Na	ame: Canton	Airport					Project I	ocation:	Canton, M	A		F	Page $5$ of $9$
GEL	Project No	ımber: 0938	2-2	٠				Project N	Manager: .	Anne Leife	r			
400 Unicorn Park Drive	Send Repo	ort to:	Ray Siege	ener				5-4-26-35		Preserv	ative	Y		Sample Handling
Woburn, MA 01801 PH: 781.721.4000								None	l					Samples Field
FX: 781.721.4073	Send EDD	to: labdata@	geiconsul	tants.cor	n ·					Analy	sis	w.rk.rd.	A TOTAL CONTROL OF THE PARTY OF	Filtered
MCP PRESUMPTIVE CERTAINTY RE	EQUIRED -	(YES) N	Ю					soxlet						YES NO NA
If Yes, Are MCP Analytical Methods R	eauired?	Land Care And Andrea	(YES)	NO	NA	100000000000000000000000000000000000000						- 1		Sampled Shipped
If Yes, Are Drinking Water Samples S	•		YES	(NO)	NA			manual						With Ice
If Yes, Have You Met Minimum Field (		ints?	YES	NO	NA			E 6					l L	YES NO
Lab Sample		Collec	llon		No. of	Samp	er(s)	PCBs by extraction	İ				800	
Number GEI Sample		Date	Time	Matrix	Bottles	Joiti	ils	g \$		-				Sample Specific Remar
-45 093822- HS - AQ		0/20/10		50	1	22	<u> </u>	<del>X</del>		-			1	ACID/FREEZO
-1/4 093822- HS - AP	<u>- රි</u>		0949	$\vdash$	+	++		X	-	1	+		$\vdash$	-1
51 093822- HS -AR			0951	+	+ f	+		X						1
-52 093822- NS-48			0921			$\top \top$		X						. 1
-53 093822-HS-AS	-9		0953					×						
	-10	<u> </u>	0954		<b>↓</b>	$\perp \perp$		×					<b>├</b>	HOLD/FREGER
55 093822- HS - AT	<u>- 8</u>	<del>                                     </del>	0955	<b></b>	1 —	+		X						-
-56 093822- HS - 4T	- 10	<del>                                     </del>	0956	_	<del>                                     </del>	+		$\frac{1}{x}$		+	1			
	5-6	<del>                                     </del>	0957		++-	+1		ÎX					$\vdash$	
-59 093822- H 5-AE		1	(00)	<b>V</b>	14	┼~ば		×	1		11		rt	
MCP Level Needed: GEI requires the		t Method 1 M		rd be me	t for all a	nalytes	-416		CALL SHIP LANDER HAD	round Tim				itting rush
whenever gossible Retinquished by Mirpoler (signature)	Date	Time:	Received by:	(signature)		Vernesas	5,7795			ness days				amples, you must oratory to confirm
	5/20/10	1530	1 66	1 Er	dax			1	rmalX )-Day		er	1 -		can be achieved.
Relinquished by: (signature)	Dáte :	Time:	Received by:	<u> </u>	7			1	-Day	3-Day				
2. OF Sample Fordy	- 5/21/10	1235	2 Jan	1)00.	Mo				Åddit	ional Req	uiremen	ts/Comm	ents/Re	marks:
Relinquished by: (signature)	Date:	Time:	Received by:	(signature)	· ·	n		MANUAL S	OXLET EXT	RACTION RE	QUIRED.			
3. / CNDUCAGO Relinquished by: (signature)	5/21/16 Date:	1236	3. Received by:	well	- dia	<u>W</u>								
4. Will Anth	5/240	1525	Couver by.		11			DCR RATE	S APPLY.					
4. VILL OMILO	PUMO	1 12 00	14. L2	an a	kel			MAIN	MAI - F	20/2-15	1	ated (	BMO	

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Chain-c	of-Custody Rec	ord			Labora	tory:	Accutes			Labora (Labuse)	atory Jo only)	љ#		M41579
		entropides mar to			14110	P	roject Inf	rmation	(MARKET M.)				Yester Japansy	
	7.60	Project Na	me: Canton	Airport				Project L	ocation:	Canton, N	IA			Page 6 of
(	GEI 💆	Project Nu	mber: 0938	2-2				Project N	/lanager:	Anne Leif	er			
400	Unicorn Park Drive	Send Repo	ort to:	Ray Sieg	ener					Preser	vafive			Sample Handling
	oburn, MA 01801			, ,				None			1			
	H; 781.721.4000 X: 781.721.4073	Send EDD	to: labdata(	@geiconsu	ltants.com	1		None		Anal	ysis		*	Samples Field Filtered
MCP PRESE	JMPTIVE CERTAINTY RE	QUIRED	(YES) N	10			ekstanti Silver Residen	të 😾						YES NO NA
f Vac Ara M	ICP Analytical Methods Re	auired?		(YES)	NO	NA		ls sox			ŀ			Sampled Shipped
	rinking Water Samples Su			YES	(NO)	NA		manual			l			With Ice
	You Met Minimum Field Q		nts?	YES	NO	NA		E 5	}					(YES) NO
			Collec				Sampler(	PCBs by n						
Lab Sample Number	GEI Sample I	D	Date	Time	Matrix	No. of Bottles	Samplen	일상						Sample Specific Rema
-60	093822- HS -AE S	-8	5/20/10	1003	So	1	SSH	X						
-6/	093822- H5 - AE .5	-9		1003			1-1-	X		1	_	<u> </u>		<u> </u>
-62	093822- HS - AF -!	5.5		1004	<u> </u>	<u> </u>	$\sqcup \bot$	X				ـ		
-43	093822-H5 - AG ·			1005	<del>    -   -   -   -   -   -   -   -   -  </del>	Ш_	1-1	×		++		1		<del></del>
-64	093822- HS -AH -		<b>.</b>	1006	$\vdash$	<b>   </b>		X			_	├	<del> </del>	
-65		<u>:55</u>		1003	<del>                                     </del>	<del>  </del>	┼-	X		+ +		+		
-66	093822- HS - A) -			1008	<del>                                     </del>			X	-	-		+		
-67	093822- HS - AK-			1009	+		$\vdash\vdash$	X				-		
-68	093822- HS - AL-	<u> </u>	$\vdash$	10.10		<del>                                     </del>	+	<del> </del>				+-		
-64 -70	093822-H3 - AL			10.11	<del>                                     </del>	<del>                                     </del>	+-	+?+				+		
-70	093822-HS - AL 5			10/3	1	<b>U</b>	1	131.	1184	14/10		$\vdash$	†     †	
ICP Level	Needed: GEI requires the		l Method 1 M		ard be me	for all a	nalytes		/ / V ·	around Tir	ne		Before su	ubmitting rush
vhenever po	ossible					-0.86		ATTOTECH	(Bus	iness day	s):			nd samples, you mu
Relinquished by sa	andplor (signature)	Date	Time:	Received by:	(signature)	4		i i	rmalX	_	ner			laboratory to confire FAT can be achieved
1	10	5/20/10		1.00	lm	$\alpha q_{\Lambda}$		-	0-Day		ау		uiat tile i	TAT Call be achieved
configuration by: (:	- 6 1 4	5/21/10	Time:	Received by:	(Signature)	` /		5	i-Day	3-Day				:/Remarks:
	t Sanfie Fordse	Date:	Time:	Received by:	(eignoturb)	ie)		202000	- S The Regular	age, cooks, restaurary man		IHSIC	Onments	ancinairs.
elinquished by: (	Signature)	5/21/10		Trecover by	(arguetta e)			MANUALS	OXLET EX	TRACTION R	EQUIRED.		-	
Relinquished by: 6	uished by (signature) Date:   fime:   Received								C ADDI Y					
4 E.TA	lad 1	Chille	1625		W. Ze	00	_	DCR RATE	S APPLY.					
, <i>ч</i>	IK (XIII)	10100	1 12-7	4. / ME		the		<del> </del>		<del></del>	3 1		e ROBS	

M91579T: Chain of Custody Page 6 of 14



Chain-c	of-Custody Rec	ord			Labora	10 7 (a. 1859) and 10	Accutes	686-7.57		(Lat	boratory ouse only)	Job#		1791579
_		Project Na	me: Canton	Airport	F7636988		roject <sub>i</sub> in	Project		ion: Canto	on, MA	100000000000000000000000000000000000000		Page 7 of 9
(	JEI Consultants	Project No	ımber: 09382	-2				Project	t Manag	ger: Anne				
	Unicom Park Drive	Send Repo	ort to:	Ray Siege	ener			Parket Completed in STATES Completed in		R)	escrva <b>li</b> yı			Sample Handling
Р	oburn, MA 01801 H: 781.721.4000 X: 781.721.4073	Send EDD	to: labdata@	geiconsul)	ltants.con	1		None			Analysis			Samples Field Filtered
MCP PRESU	IMPTIVE CERTAINTY RE	QUIRED -	YES N	0				soxlet						YES NO NA
If Yes, Are M	ICP Analytical Methods Re	equired?		(YES)	NO	NA	<u> </u>							Sampled Shipped
If Yes, Are D	rinking Water Samples Si	ubmitted?		YES	(NO)	NA		manual						With Ice
If Yes, Have	You Met Minimum Field C	C Requireme	nts?	YES	NO	NA			1					(YES) NO
Lab Sample Number	GEI Sample	D	Collec Date	tion Time	Matrix	No. of Bottles	Sampler Initial:	CBs						Sample Specific Remar
×71	093822- HS - AT		5/20/16	1014	50	1	SSH	X						
-72	093822- H3 -AT S	-10	1	1015	1	1		X			_			
-73	093822- HS-AM			1016				X						
-74.	093822- HS-AN-	-7.5		107				X						
-75	093822- HS-AO-	7.5		1018		<u> </u>		$\alpha$					ļ	
~76	093822- HS- 4P-	7.5		1019		Ш.	1	$\perp \times \perp$			$\perp$		<del>                                     </del>	
~7,7	093822- H5 - AQ	- <del>7.5</del>	<u> </u>	1030	<u> </u>	$oxed{oxed}$	<b>↓</b> .	X					<u> </u>	
-78	093822-HS - AR	7.5		1021	<b>                                     </b>	<b>↓</b>	$\vdash$	- X-			-			
- 79	093822-HS-AS-			1000	<u> </u>	<b>↓</b>	—	$\perp \times \perp$			+			
- 100	093822- HS - AT			1023	<del>                                     </del>	+ $+$		$ \times$ $-$						
-81	093822- HS - AH		<u> </u>	1024	1	1	<del>   </del>	<u> </u>						
~5.2	093822- HS AT Weeded: GEI requires the	7 - 10.5	Method 1 M	1025	rd be me	i for all ar	alvies :	_ X _	1	urnaroun	d Time		Before s	<b>l</b> ubmitting rush
whenever po		niosi siringen	CINEMOG 13M	OI Stanoe	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	S AFRICA CO.			For the last reading	Business	THE CONTRACTOR OF COMPANY		2	nd samples, you mus
1	poster (suprature)	Date: 5/20/0		Received by:	fr	idar			Normal 10-Day		Other 7-Day			e laboratory to confirm TAT can be achieved.
elinquished by: (s	' ( /	Date:	Time:	Received by:	(SKIDAULE)	-0		eccadosa e	5-Day		3-Day	aranina nagrana	ester comence	and the second
2/96	I Single Bildse	5/21/10	1233	2.	1	rgie		Session	CALLED A DAMA IN	eramonic leitte in			comment	s/Remarks:
kelinguished by: (s	signaturje)	Date: 5/21/10	1236	neceived by:	(arhunne)	1 1	00	MANUA	L SOXLE	TEXTRACT	ON REQUIR	ED.		
3. / NX Relinquished by: (s	signature)	Date :	72-3 () Time:	3. Received by:	(signature)	C au	LL.	-						
		6/24/10	1525		,	1. 1	,	DCR RA	TES APP	LY.				
<u>4. しつ</u>	le delle	15/24/c	1200	لما 4.	ulle	frell		100		0 /	1 . 7		e PCB	_

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Chain-c	of-Custody Reco	ord			Labora	itory:	Accu	test			Labor (Lab use	ratory .	Job#		1991579
			- Danielon				roject	Info	rmation		1 (CED CO	Oliny)		and the second	
			me: Canton	And Add to be a second	Badalin han ya				Project L		Canton,	MA			Page 8 of (
(	JEI Consultants	Project Nu	mber: 0938	2-2			_		Project N	lanager: /	Anne Le	ifer			
	Unicorn Park Drive	Send Repo	rt to:	Ray Sieg	ener				Sections		Prese	rvative			Sample Handli
	oburn, MA 01801 PH: 781.721.4000								None	ı					Samples Fie
	X: 781.721.4073	Send EDD	to: labdata(	@geiconsu	itants.con	n			40000		An:	alysis			Filtered
MCP PRES	UMPTIVE CERTAINTY RE	QUIRED -	YES) I	VO		Total			× ×						YES NO
If Yes. Are N	MCP Analytical Methods Re	quired?		(YES)	NO	NA			al sox						Sampled Shipp
	Drinking Water Samples Su			YES	(NO)	NA			manual						With Ice
	You Met Minimum Field Q		nts?	YES	NO	NA			g ig						(YES) NO
Lab Sample				ction		No. of	Sami	aler(s	ျမွာမျ						
Number	GEI Sample II		Date	- Time	Matrix	Bottles	Ini	ials		-			-	++	Sample Specific Rea
- 83	093822-H5 -AJ-10		5HO/10	1096	80	1	122	H	×					++	-
-84	093822-H5 -AK-10			1007	<b> </b>	1	++		<del>\</del>	<del></del>	+		-	+ +	
-35	093822-HS-AL-10		<u> </u>	1028	$\vdash$	++	+	_	×		$+ \neg$		+	1	
-87	093822-H5 -AN -			1030			1 1		X	1					
-88	093822-H5 -40 - /			1031					×						
-84	093822-HS-AP-1	0.5		1032		$\coprod$	1		×	_	4			1	
-90	093822-HS-AQ-1	0.5		1033_	Ш	14	1		×		1-1		-	+	
-91	093822-HS-AR-1			1034	<u> </u>	$\bot \bot$	$\vdash$		×		+		┈	+ +	
-92	093822-HS-AS-K		<u> </u>	1035	┼┼	+	+		X	-	╁╌┤		┪	+ +	
-93 -94	093822-HS-AT-1			1036		1	+ 1	,	X	_	1		+	+	
MCP Level	Needed: GEI requires the	most stringen	I t Method 1 N		ard be me	et for all a	nalyte			Charles of the Assessment of the	round T	other comments of the contract of			submitting rush ound samples, you m
whenever po	ossibles anglér (signature) ( )	Date:	Time:	Received by	(signature)			PERT?	Mo	rmal X	ness da O	ther			the laboratory to conf
12/2		Slaolio	1530	166	i Fri	das			ı	)-Day		Day	_	that the	e TAT can be achiev
Relinquished by:	(signature)	Date :	Time:	Received by	(signature)				4	-Day	3-D		-		
2/260	I sangled Ridge	0/21/10	1235	2.10	afee	islo_			00000000	Addit	ional R	equiren	nents/	Comme	nts/Remarks:
Relinquished by:	(signature)	Date :	Time:	Received by	(signature) (	, ,	,		MANUAL S	OXLET EXT	RACTION	REQUIRE	D.		
3. 10cl	myte	5/21/10	1256	3.	riell	ded									
Relinquished by:	4. /	Date:	1525	Received by	(signature)				DCR RATE	S APPLY.					
4. C	ulland	8/2//10	1500	14. LL	10	and the			DALT	101 - I	Ment	-/-	launt.	od A	BS
									CALL	/U/ 1 - /	<u>u-un</u>	ici (A			5/19/2010 inplates\Chain of Custody

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Chain-of-Custody Rec	ord		Labora	atory:	Accutest	end o		Laborato (Lab use only	30,000 2000 2000 200		M41579
				P	roject Info	rmation					
	Project Name: 0	Canton Airport				Project L	ocation: (	Canton, MA			Page 9 of 9
GEI Consultants	Project Number	: 09382-2				Project N	lanager: /	Anne Leifer			
400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073	Send Report to:	Ray Sie	_	n		None		Preserval Analysi			Sample Handling Samples Field Filtered
MCP PRESUMPTIVE CERTAINTY R	EQUIRED - YE	s) no				soxlet					YES NO NA
If Yes, Are MCP Analytical Methods R If Yes, Are Drinking Water Samples S If Yes, Have You Met Minimum Field Lab Sample Number GEI Sample Number GEI Sample 1	NO N	NA NA NA NA No. of Bottles 1	Sampler(s Initials SSH	ss by manual action					Sampled Shipped With Ice YES NO Sample Specific Remark		
MCP Level Needelt: GEI requires the whenever possible. Relinquished by camplet: (eignofur)  1. Relinquished by (signofure)  LGCTS Groupe Finds Relinquished by (signofure)  3. Time Lyngula Relinquished by (signofure)  4. Williams	Date: True:  Date:	Received 3.5 2. Je Received 3.5 2. Je Received 3.6 3.	dard be mis  yy, (signature)  yy, (signature)  yy, (signature)  yy, (signature)	Jage mgb dire	halytes	MANUAL S DCR RATE	(BusinmalX_ )-DayDayDay  Addit OXLET EXT	_ 7-Day _ _ 3-Day _	irements/ JIRED.	turnarou notify the that the Comment	ubmitting rush nd samples, you must e laboratory to confirm TAT can be achieved. s/Remarks:

M91579T: Chain of Custody Page 9 of 14



W.Co.Y	MARCH A	200	à			<b>5</b> 4	À	Proje	cidola	matio	n 🚜			teory).				<b>,</b> (建	179	1
	Project Na	me: Ca	enton	Airport						Projec	t Loca	tion: C	anton	, MA					Page	i of
GEI Consultanta	Project Nu	mber: (	09382	-2						Projec	at Man	ager: A								
400 Unicom Park Drive	Send Repo	rt to:		Ray Siege	ener					To be	<b>.</b> .	200	Pro	<b>Operatio</b>	/e <sup>(*</sup> *)			<b>3.</b> 4.	Sales	i de la cons
Woburn, MA 01801 PH: 781.721.4000										None										
FX: 781.721.4000	Send EDD	to: labo	deta@	geloonsul	tants	.com					. 3			alysis				78		ples Fid
NCP PRESUMPTIVE CERTAINTY REC	unpen 🏕	AVE &	5 J						e e	5	127			7			CONTRACT.		1	NO
	The second second		(9)			OX.				soxet		· ·							<del></del>	
f Yes, Are MCP Analytical Methods Rec				(YES)	_	10	NA			manual		1,				-				led Ship Vith Ice
If Yes, Are Drinking Water Samples Sub				YES	_	روا	NA			ğ _		1							(YE	_
f Yes, Have You Met Minimum Field QC	Requiremen		Collect	(YES)	N N	IO Partial	NA MA	. 28		PCBs by extraction		1		ľ			- 1			CF AND
L-0.5 mg/s							No. o		ingsa (b) Intibilità	PCBs extrac	4		1						Samuela S	o chicks
093822-H5-AF-6		Tones and	<del></del>	0900	S	<u> </u>	1		SH R	×	and and a first	tion to til se	1							IPRE
-2 093822-HS-AF-7		7/49	, , ,	0901	1	_	<del></del>	_	i i	٠			†	$\vdash$					1	
-3 093822-H5-AF-8				1902			$\top$	T	$\perp$	Х										
-4 093822-HS-AF-	9			0905					T	X										
-5 093822- H5 - AG-				1904			$\perp$	$\perp$	1	Y		<u> </u>	<u> </u>		Щ			L	4	/
-6 093822- H5 - AG-	<u>-7</u>	$\vdash \downarrow$		C090	Ш		-	4-	+	X		-	-	-					INT	IFRES
~7 093822-HS-AG	<u>_</u> Ø	-		0906_	Н	$\vdash$	+	+	+	×		-	├	-	$\vdash\vdash$			<u> </u>	Huu	TRE
-8 093822- HS-AG-	٦,			0903			<u> </u>	$\pm$	_	X	<del>                                     </del>	<del> </del>	1	$\vdash$	H			-	HE	55/21/
9 093822 45 - 41	10		a wastin	0909	7.7				en entra en	×	RI	N	t				_	$\vdash$	HOU	11788
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-11 093822 HS-AH	-8	*	/	0011	7		-	$\top$	V	×										/
NUT THE Needed, GEI requires the in	cal allucation	Methor	d f M	Helinda	Ø b	met	ior ell			Mar.		<b>We</b>	o(CO)	Time.			Befor	e sub	mitting r	ush
Reinquished byledinaloy (signature)	Onto:	Time:		Received by:	(algnat	ure)	<b>1</b>	<u>**</u>	<b>在被开</b> 处设			(Bůšín I X		Other _	-				sample: aborator	
tas/le	5/20/10	1530	0	GEI	Sao	zple	, Fn	dg,	C		10-Da		_	-Day _					T can be	
Languished by: (Altruiting)	Date:	Time:		Received the	(algrai	かり				1	5-Day			)ay						
. GET Sunde fridge	5/21/10	1235	<u> </u>	2. 10	n	lon	y Co				W.	Adriu	onal I	<b>Squ</b> l	em e	felC	onva		ion iti	
telinquished by (elenature)	5/21/6	Time:	$\overline{}$	Received by:	(Mgrati	ure)		,		MANUA	L SOXL	ET EXTR	LACTION	REQUI	RED.				13	ξF_
10 yours	1	123	6	3. ly	188	Q	2	<u>_</u>		L										
olinquished by: (signature)	12/2/10	7ime: 154	أسرر	Received by:	(signat self	W0)	A			DCRR	ATES AF	PLY.				•				
· Villingetto	1-10110	100	- U	مار 4.		Œ	el_			AA.		1 12	.1 -	I	. 14.	- ta	1 0	4 O -		2.3
可感染的现在分词 医二甲二甲二苯	The second	15		er jehi	phyl.	4				الكيا	mor	<u>1 - F</u>	2460	Par	ببيب	OH	كلم	تصن	- KF	0/2010

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		Project Na	me: Canton	Airport					Proje	ct Loca	tion: C	anton, k	AA.				Page 2	2 of 0
G	F	Project Nu	mber: 09382	-2					Proje	ct Man	адег: А	nne Leif	er					
400 Un	icom Park Drive	Send Repo		Ray Siege	ener					7 7	Ť.		YAUYE	i i				18.0
	urn, MA 01801 781.721.4000								None									ertendlin oles Field
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M91579T: Chain of Custody Page 11 of 14



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M91579T: Chain of Custody Page 12 of 14



M915797

From: Mark Warren

Monday, August 02, 2010 3:41 PM Sent:

Tyana Nguyen ë

Subject: FW: Comparability Study

Hi Tyana,

Would you enter these re-log projects for me? You can use an "R" job or "T" job as some of these projects already have "R" jobs. Thanks,

Mark Warren

Accutest Laboratories of NE Voice: 508.481.6200 Ext. 247

markw@accutest.com Fax: 508.481.7753

Accutest - "The national Testing Laboratory with Total Performance you can count on"

From: Mark Warren

Sent: Monday, August 02, 2010 2:19 PM To: Kristen Blanchard

Subject: FW: Comparability Study

Kristen,

I need to talk to you briefly about this. Thanks,

Mark Warren

Accutest Laboratories of NE Voice: 508.481.6200 Ext. 247

Fax: 508.481.7753

markw@accutest.com

Accutest - "The national Testing Laboratory with Total Performance you can count on"

From: Siegener, Ray [mailto:RSiegener@geiconsultants.com]
Sent: Wednesday, July 28, 2010 3:45 PM
To: Mark Warren; Frank D'Agostino; Reza Tand
CE: Haley, Heather; Oosting, Saskia; Leifer, Anne
Subject: Comparability Study

Hi Mark-

M91579T: Chain of Custody

Page 13 of 14

dilution to see if we get results within the windows we need to hit (0.90 ppm – 1.0 ppm or 1.0 ppm – 1.10 ppm). As we discussed, we still need to perform some additional work to get this comparability study completed. The analyzed initially. We would like you to reextract (using Method 3540C) and reanalyze these samples with no table below has two sections – the top contains two samples that were close to the 1 ppm standard when

For the second set of 4 samples, we have included the initial result and the recommended dilution we would like you to perform, prior to extraction, to obtain sample results within the ranges listed above. As we discussed,

you can use clean sand to dilute these samples prior to extraction by Method 3540C – please prepare enough of the diluted samples so there is material remaining for extraction using Method 3545, if we are successful. We will need to review the results before proceeding with Method 3545 extractions. We will need results by August 12 for the Method 3540C samples (2-week TAT). Please give me a call if you have any questions.

		Initial			9	Sample
Accutest ID	GELID	(PPM)	Dilution	Matrix	Sample Date	(in.)
M91579-102	HS-AT.5-8	1.23	NA	Sand	5/20/2010	9-0
M91909-28	8213(0.5 -2)	1.33	NA	Sand	6/2/2010	6-24
M91579-62	HS-AI-10.5	12.7	12.7 13X	Sand	5/20/2010	9-0
M91081-9	CS-RWA104	2.4	2.5X	Sand	4/30/2010	9
M91651-111	HS-8D5.6	3.4 3	3.5X	Sand	5/24/2010	9-0
M91651-112	HS-BD5.7	3.4	3.5X	Sand	5/25/2010	9-0

Regards, Ray

Raymond Siegener, Ph.D.

Project Environmental Scientist GEI Consultants, Inc.

400 Unicorn Park Drive

Office: 781-721-4098 Woburn, MA 01801

Cell: 339-227-3342 www.geiconsultants.com

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# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

BWSC-CAM	Exhibit VII A-1
21 May 2004	Revision No. 3.2
Final	Page 10 of 32

Title: MADEP MCP Response Action Analytical Report Certification Form

	MADEP MCP Analytical Method Report Certification Form									
Labor	atory Name:	Accutest Laboratories of	f New England		Project #:	M91579T				
Proje	ct Location:	Canton Airport Canton N	л ЛА		MADEP RTN	None				
This f	orm provides certificat M91579-102T,M9157	ions for the following dat 9-62T	a set:							
Sampl	Sample Matrices: Groundwater Soil/Sediment X Drinking Water () Other: ()									
	MCP SW-846	8260B ()	8151A ()	8330 ()	6010B	()	7470A/1A ()			
	Methods Used	8270C ()	8081A ()	VPH ()	6020	()	9014M <sup>2</sup> ()			
	ecified in MADEP	8082 (X)	8021B ()	EPH ()	7000 S <sup>3</sup>	()	7196A ()			
Analyt	endium of ical Methods. eck all that apply)	1 List Release Tracking Nu 2 M - SW-846 Method 901 3 S - SW-846 Methods 700	4 or MADEP Physiologica							
	An affirmative respo	nse to questions A, B,	C, and D is required f	or "Presumpti	ve Certainty status	5				
Α	that described on the	eived by the laboratory in Chain-of-Custody docum	nentation for the data se	et?	✓	Yes	☐ No ¹			
Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?					Yes	□ No ¹				
С	for "Presumptive Cert (d) of the MADEP doo	d in this report meet all the ainty", as described in Secument CAM VII A, "Qual the Acquisition and Rep	ection 2.0 (a), (b), (c) ar ity Assurance and Qua	nd lity	V	Yes	□ No ¹			
D		ds only: Was the VPH ons, as specified in Section		out	V	Yes	□ No ¹			
	A response to quest	ions E and F below is r	equired for "Presump	tive Certainty	" status					
E	Were all QC performations acl	ince standards and recor	mmendations for the		Refer to Narrative	Yes	✓ No ¹			
F		alyte-list compounds/ele	ments for the specified		Refer to Narrative	Yes	□ No ¹			
1	, , ,	ses must be addressed	in an attached Enviro	nmental Labo		ive.				
inqui	I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.									
Signa	ature:	y fol	Posi	tion: La	boratory Director					
Printe	ed Name:	Reza Tand								



### **Internal Sample Tracking Chronicle**

GEI Consultants, Inc.

Job No: M91579T

Canton Airport Canton MA Project No: 09382-2

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
M91579-62 093822-HS	TCollected: 20-MAY-10 -AF-5.5	10:04 By: SSH	Receiv	ed: 21-MAY	7-10 By	y: JB
	TSW846 8082 TSW846 8082	08-AUG-10 00:26 09-AUG-10 18:48		05-AUG-10 05-AUG-10		P8082SOXHLET P8082SOXHLET
M91579-10 093822-HS	2 <b>C</b> ollected: 20-MAY-10 -AT.5-8	10:13 By: SSH	Receiv	ed: 21-MAY	7-10 By	y: JB
	2 <b>X</b> W846 8082 2 <b>X</b> W846 8082	05-AUG-10 00:46 05-AUG-10 15:04		03-AUG-10 03-AUG-10		P8082SOXHLET P8082SOXHLET



### **GC Semi-volatiles**

### **QC Data Summaries**

### Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary Job Number: M91579T

Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sampl OP221	File ID YZ59029.D	DF 1	Analyzed 08/04/10	By CZ	Prep Date 08/03/10	Prep Batch OP22182	Analytical Batch GYZ2518	

The QC reported here applies to the following samples: Method: SW846 8082

M91579-102T

CAS No.	Compound	Result	RL	Units Q
11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND ND ND	98 98 98 98 98 98	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
CAS No.	<b>Surrogate Recoveries</b>		Limits	
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	100% 103% 102% 101%	30-150 30-150 30-150 30-150	% %



Method: SW846 8082

## Method Blank Summary Job Number: M91579T

GEI GEI Consultants, Inc. Account: **Canton Airport Canton MA Project:** 

Sample OP22217-MB	File ID YZ59159.D	DF 1	Analyzed 08/07/10	By CZ	Prep Date 08/05/10	Prep Batch OP22217	Analytical Batch GYZ2524

The QC reported here applies to the following samples:

M91579-62T

CAS No.	Compound	Result	RL	Units Q	
12674-11-2	Aroclor 1016	ND	97	ug/kg	
11104-28-2	Aroclor 1221	ND	97	ug/kg	
11141-16-5	Aroclor 1232	ND	97	ug/kg	
53469-21-9	Aroclor 1242	ND	97	ug/kg	
12672-29-6	Aroclor 1248	ND	97	ug/kg	
11097-69-1	Aroclor 1254	ND	97	ug/kg	
11096-82-5	Aroclor 1260	ND	97	ug/kg	
CAS No.	o. Surrogate Recoveries Limits				
877-09-8	Tetrachloro-m-xylene	102%	30-15	<b>60</b> %	
877-09-8	Tetrachloro-m-xylene	110%	30-15	<b>60</b> %	
2051-24-3	Decachlorobiphenyl	101%	30-15	<b>60</b> %	
2051-24-3	Decachlorobiphenyl	126%	30-15	<b>60</b> %	



Method: SW846 8082

### Blank Spike/Blank Spike Duplicate Summary

Job Number: M91579T

Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Sample OP22182-BS OP22182-BSD	File ID YZ59030.D YZ59064.D	_	Analyzed 08/04/10 08/05/10	By CZ CZ	Prep Date 08/03/10 08/03/10	Prep Batch OP22182 OP22182	Analytical Batch GYZ2518 GYZ2519

The QC reported here applies to the following samples:

M91579-102T

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	261 261	282 ND ND ND ND ND ND 277	108	281 ND ND ND ND ND ND 266	110	0 nc nc nc nc nc	40-140/30 40-140/30 40-140/30 40-140/30 40-140/30 40-140/30
CAS No.	Surrogate Recoveries	BSP	BSI	)	Limits			

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	102%	105%	30-150%
877-09-8	Tetrachloro-m-xylene	102%	103%	30-150%
2051-24-3	Decachlorobiphenyl	106%	93%	30-150%
2051-24-3	Decachlorohinhanyl	105%	100%	30-150%

Method: SW846 8082

### Blank Spike/Blank Spike Duplicate Summary

Job Number: M91579T

Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

OP22217-BS YZ59160.D 1 08/07/10 CZ 08/05/10 C	Prep Batch Analyt OP22217 GYZ2 OP22217 GYZ2	
---	---	--

The QC reported here applies to the following samples:

M91579-62T

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	255 255	277 ND ND ND ND ND ND 283	109	292 ND ND ND ND ND ND 303	112 116	5 nc nc nc nc nc nc	40-140/30 40-140/30 40-140/30 40-140/30 40-140/30 40-140/30
CAS No.	Surrogate Recoveries	BSP	BSI	)	Limits			
877-09-8	Tetrachloro-m-xylene	110%	112	%	30-150%	ó		

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	110%	112%	30-150%
877-09-8	Tetrachloro-m-xylene	118%	118%	30-150%
2051-24-3	Decachlorobiphenyl	109%	114%	30-150%
2051-24-3	Decachlorobiphenyl	134%	139%	30-150%

### Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91579T

Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

1105501-7 125045.D 1 00/04/10 CZ 00/05/10 0122102 G122310	Sample OP22182-MS OP22182-MSD M93301-7	File ID YZ59032.D YZ59033.D YZ59043.D	1	Analyzed 08/04/10 08/04/10 08/04/10	By CZ CZ CZ	Prep Date 08/03/10 08/03/10 08/03/10	Prep Batch OP22182 OP22182 OP22182	Analytical Batch GYZ2518 GYZ2518 GYZ2518
---	---	--	---	-------------------------------------	----------------------	--------------------------------------	---	---

The QC reported here applies to the following samples: Method: SW846 8082

M91579-102T

CAS No.	Compound	M93301-7 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND ND ND 93.7 ND	299 299	320 ND ND ND ND 170 296	107 99	261 ND ND ND ND 114 209	70	20 nc nc nc nc 39 34	40-140/50 40-140/50 40-140/50 40-140/50 40-140/50 40-140/50
CAS No.	Surrogate Recoveries	MS	MSD	M9	3301-7	Limits			
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	104% 107% 99% 91%	76% 79% 73% 65%	108 113 83% 76%	% 6	30-150% 30-150% 30-150% 30-150%	ó ó		



Method: SW846 8082

## 3.2

### Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M91579T

Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

	Sample OP22217-MS OP22217-MSD M93324-1	File ID YZ59162.D YZ59163.D YZ59164.D	DF 1 1	Analyzed 08/07/10 08/07/10 08/07/10	By CZ CZ CZ	Prep Date 08/05/10 08/05/10 08/05/10	Prep Batch OP22217 OP22217 OP22217	Analytical Batch GYZ2524 GYZ2524 GYZ2524
--	---	--	--------------	-------------------------------------	----------------------	--------------------------------------	---	---

The QC reported here applies to the following samples:

M91579-62T

CAS No. C	Compound	M93324-1 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2 A 11104-28-2 A 11141-16-5 A 53469-21-9 A 12672-29-6 A 11097-69-1 A 11096-82-5 A	Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254	ND ND ND ND ND ND ND	262 262	285 ND ND ND ND ND ND 321	109 122	277 ND ND ND ND ND ND ND 308	<ul><li>105</li><li>117</li></ul>	3 nc nc nc nc nc	40-140/50 40-140/50 40-140/50 40-140/50 40-140/50 40-140/50
CAS No. S	Surrogate Recoveries	MS	MSD	M93	324-1	Limits			
877-09-8 T 2051-24-3 D	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	114% 121% 127% 126%	108% 111% 118% 123%	1099 1189 1179 1249	% %	30-150% 30-150% 30-150% 30-150%	,		



### Semivolatile Surrogate Recovery Summary

Job Number: M91579T

Account: GEI GEI Consultants, Inc.
Project: Canton Airport Canton MA

Method: SW846 8082 Matrix: SO

Samples and QC shown here apply to the above method

Lab	Lab				
Sample ID	File ID	S1 a	S1 b	S2 a	S2 b
M91579-62T	YZ59168.D	79.0	41.0	78.0	99.0
M91579-62T	YZ59199.D	91.0	56.0	91.0	92.0
M91579-102T	YZ59062.D	0.0* c	0.0* c	0.0* c	0.0* c
M91579-102T	YZ59050.D	106.0	108.0	150.0	151.0* d
OP22182-BS	YZ59030.D	102.0	102.0	106.0	105.0
OP22182-BSD	YZ59064.D	105.0	103.0	93.0	100.0
OP22182-MB	YZ59029.D	100.0	103.0	102.0	101.0
OP22182-MS	YZ59032.D	104.0	107.0	99.0	91.0
OP22182-MSD	YZ59033.D	76.0	79.0	73.0	65.0
OP22217-BS	YZ59160.D	110.0	118.0	109.0	134.0
OP22217-BSD	YZ59161.D	112.0	118.0	114.0	139.0
OP22217-MB	YZ59159.D	102.0	110.0	101.0	126.0
OP22217-MS	YZ59162.D	114.0	121.0	127.0	126.0
OP22217-MSD	YZ59163.D	108.0	111.0	118.0	123.0

Surrogate Recovery Compounds Limits

S1 = Tetrachloro-m-xylene S2 = Decachlorobiphenyl 30-150% 30-150%

- (a) Recovery from GC signal #1
- (b) Recovery from GC signal #2
- (c) Outside control limits due to dilution.
- (d) Outside control limits due to possible matrix interference.